APPENDIX II
CLEAN VERSION OF THE ENTIRE SET OF PENDING CLAIMS PURSUANT TO 37 CFR § 1.121 (c)(3)

1. A composition, comprising:
    i) a solid matrix having a controlled porosity that is substantially free of solvent comprising a mixture of;
        a) at least one polymer, wherein said polymer is selected from the group consisting of poly(L-lactic acid), poly(D,L-lactic acid-co-glycolic acid (PLGA), poly(methyl methacrylate) and polystyrene; and
        b) at least one inorganic compound wherein said inorganic compound is selected from the group consisting of hydroxyapatite, calcium phosphate and glass powder.

2. The composition of Claim 1, wherein said controlled porosity is greater than approximately 85%.

3. The composition of Claim 1, wherein said controlled porosity is greater than approximately 90%.

4. The composition of Claim 1, wherein said controlled porosity is greater than approximately 95%.

5. The composition of Claim 1, further comprising a simulated body fluid contacting said matrix.

6. A composition, comprising:
    a) a three dimensional structure formed by a solid matrix having a controlled porosity; and
    b) a simulated body fluid contacting said structure, wherein said matrix comprises a mixture of;

i) at least one polymer, wherein said polymer is selected from the group consisting of poly(L-lactic acid), poly(D,L-lactic acid-co-glycolic acid (PLGA), poly(methyl methacrylate) and polystyrene; and

ii) at least one inorganic compound wherein said inorganic compound is selected from the group consisting of hydroxyapatite, calcium phosphate and glass powder.

7. The composition of Claim 6, further comprising c) one or more living cells contacting said matrix.

8. The composition of Claim 6, wherein said one or more cells are selected from the group consisting of osteoblast, fibroblasts, and epithelial.

9. The composition of Claim 6, wherein said controlled porosity is greater than approximately 85%.

10. The composition of Claim 6, wherein said controlled porosity is greater than approximately 90%.

11. The composition of Claim 6, wherein said controlled porosity is greater than approximately 95%.

12. The composition of Claim 6, wherein said matrix is biodegradable.

13. The composition of Claim 1, wherein said controlled porosity is greater than approximately 80%.

14. The composition of Claim 6, wherein said controlled porosity is greater than approximately 80%.